

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
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 SERIAL NO: 10/572,574 :  
 FILED: MARCH 17, 2006 : GROUP ART UNIT: 1628  
 FOR: SKIN CLEANSING AGENT, :  
 PARTICULARLY FOR REMOVING :  
 PRINTING INKS AND/OR SOILING CAUSED :  
 BY INK :

COMPARATIVE EXPERIMENTAL DATA

COMMISSIONER FOR PATENTS  
 ALEXANDRIA, VIRGINIA 22313

SIR:

1. Formulations: The following formulations were prepared as shown below. The inventive formulation of Example A contains PEG-2 rapeseed amine without potassium hydroxide. The conventional formulation of Comparative Example B contains potassium hydroxide as a "pH regulator" without PEG-2 rapeseed amine.

Tradename	Chemical	A [%]	B [%]
Propandiole 1,2	propylene glycol	2.000	2.000
Polydiole 400	PEG-8	49.590	49.590
Bermocoll EHM 200	C <sub>12</sub> -C <sub>16</sub> alkyl hydroxyethyl ethylcellulose	1.500	1.500
Intrasol 1218/10 / FK	Laureth-10	10.000	10.000
<b>Berol 302</b>	<b>PEG-2 rapeseed amine</b>	<b>9.900</b>	-
<b>ethan. KOH 0.5mol/l</b>	<b>Potassium hydroxide</b>	-	<b>9.900</b>
EDTA-powder	Tetrasodium EDTA	2.000	2.000
CI 77891	Titanium dioxide	1.500	1.500
Mono sodium phosphate calc.	Sodium phosphate	0.010	0.010
Aerosil <sup>®</sup> 200 of Evonik Degussa GmbH	Silica	3.000	3.000
Hydrosulfit PFS	Sodium hydrosulfite	10.000	10.000
Walnut shell powder	Juglans Regia Shell Powder	10.000	10.000
Perfume oil	Perfume	0.500	0.500
<b>Total</b>		<b>100.000</b>	<b>100.000</b>

2. Experimental Procedure: The cleaning power of the formulation of Example A and the conventional formulation of Comparative Example B was tested with the following hand washing test using 10 subjects:

- 0.5 g of black ink (Pelikan 4001 Brillant-Schwarz) stain soiling was distributed on the palm and the back of the hand and rubbed in
- hands were allowed to dry for 1½ min
- 1.2 g of the formulation of Example A or the conventional formulation of Comparative Example B was applied and rubbed in
- 1 ml of water was added and the hands were washed for 30 s
- a further 1 ml of water was added and the hands were washed again for 30 s
- hands were rinsed under cold running water
- a visual assessment of residual ink stain soiling on the back and the palm of the hand was conducted according to the following scale.

0 = clean

1 = small amounts of residual ink stain soiling remaining

2 = medium amounts of residual ink stain soiling remaining

3 = large amounts of residual ink stain soiling remaining

4 = very large amounts of residual ink stain soiling remaining

5 = no cleaning

3. Experimental Results: Measurements of the average values of residual ink stain soiling on the hands are as follows:

Formulation	Ink Cleaning Results
Example A	1.2
Comparative Example B	4.6